



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



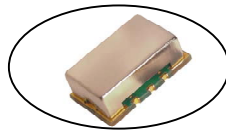
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Differential LVPECL Clock Oscillator



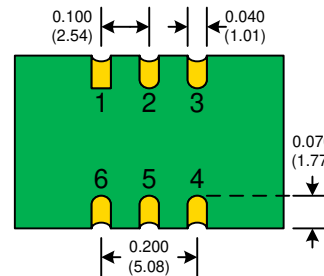
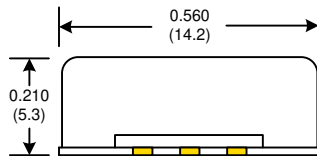
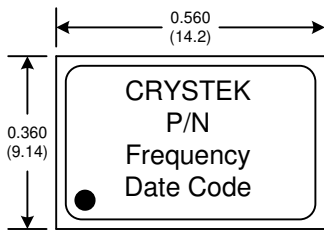
CCPD-912 Model

9x14 mm SMD, 3.3V, LVPECL

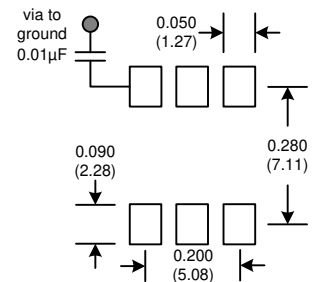
Frequency Range:	77.760 MHz to 161.1328 MHz
Frequency Stability:	±20ppm to ±100ppm
Temperature Range:	0°C to 70°C
	(Option M) -20°C to 70°C
	(Option X) -40°C to 85°C
Storage:	-45°C to 90°C
Input Voltage:	3.3V ± 0.3V
Input Current:	55mA Typical, 88mA Max
Output:	Differential LVPECL
	Symmetry: 45/55% Max @ 50% Vdd
	Rise/Fall Time: 1ns Max @ 20% to 80% Vdd
	Logic: Terminated to Vdd-2V into 50 ohms
	Temp. 0°C to 85°C
	Temp. -40°C to 0°C
	Disable Time: 200ns Max
	Start-up Time: 1mSec Typical, 2mSec Max
Jitter:	12kHz to 20MHz
	0.45 psec Typical @ 80 MHz, 1ps RMS Max
	0.25 psec Typical @ 160 MHz, 1ps RMS Max
Phase Noise:	10Hz -65 dBc Typical
	100Hz -98 dBc Typical
	1kHz -125 dBc Typical
	10kHz -140 dBc Typical
	100kHz~100MHz -145 dBc Typical
Aging:	<3ppm 1 st year, <1ppm every year thereafter



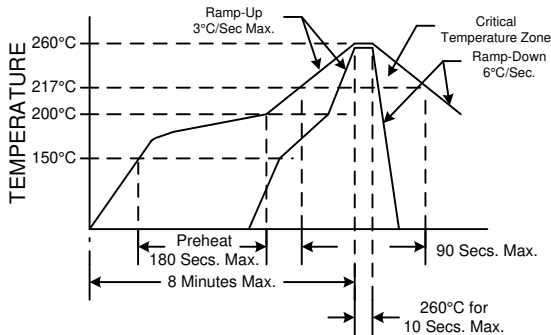
Designed to meet today's requirements for 3.3V Differential LVPECL applications. The CCPD-912 is a very low noise, low jitter clock oscillator for demanding telecom and other applications.



SUGGESTED PAD LAYOUT



RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

Crystek Part Number Guide

CCPD-912 X - 25 - 155.520

#1 #2 #3 #4 #5

- #1 Crystek SMD PECL Osc.
- #2 Model 912 = 9x14mm smd 6pad 3.3V
- #3 Temp. Range: Blank = 0/70°C, M = -20/70°C, X = -40/85°C
- #4 Stability: (see Table 1)
- #5 Frequency in MHz: 3 or 6 decimal places

Stability Indicator

Blank (std)	± 100ppm
50	± 50ppm
25	± 25ppm
20 **	± 20ppm
** only available 0/70°C	

Example:
CCPD-912X-25-155.520 = 3.3V, 45/55, -40/85°C, 25ppm, 155.520 MHz

Table 1

PIN	Function
1	E/D
2	NC
3	GND
4	OUT
5	COU
6	Vdd

Tri-State Function	
Function pin 1	Output pin
Open	Active
"1" level 0.7V Min	Active
"0" level 0.3V Max	High Z

Specifications subject to change without notice.

TD-030403 Rev. F